

## **DROPPER BOTTLE AND ACCESSORIES THEREFOR**

### **ABSTRACT**

To overcome shortcomings of the prior art, the subject invention is provided which  
5 includes various dropper bottle designs and dropper bottle assemblies including accessories  
for dropper bottles. With certain aspects of the subject invention, improvements in the  
administration of eye drops is provided by adding accessories or modifications to  
conventional dropper bottles, so that doses and/or single drops may be administered in a  
repeatable and reliable manner. More specifically, certain embodiments use devices (10,  
10 300) to restrict the amount the dropper bottle (12) is deformed in administering a dose; other  
embodiments rely on mechanical reduction of interior volume (without deformation of the  
dropper bottle(12)) to administer a dose, such as with a displaceable piston (500, 602); and,  
yet, a further embodiment provides a valving arrangement (402, 404) to limit a dose.  
Features (200) are also included which aid in the alignment of the dropper bottle's nozzle to  
15 the eye, and a feature (102) is provided for protecting the user's eye from potential damage  
which can occur if a pointed nozzle (104) is brought into contact with the eye during  
alignment. As will be appreciated by those skilled in the art, the various aspects and  
embodiments disclosed herein may be used singularly or in various combinations.